

7 Requirements Matrix

This section lists the high-level requirements, which are located in the column headers. The row headers show the software development approaches and concepts covered by the implementation.

Screen:	New Game			
Component:	Player Entry		Contacts Lookup	
Feature:	Enter players manually.	Rematch with last set of players.	Enter players via Contacts App.	Show contact thumbnail
Content Providers				
CommonDataKinds .Contactables			X	
Content Provider				X
Content Providers - Contacts			X	
Content Providers - Email				
Content Providers - Text Messaging				
ContentResolver - Contacts	X			
Database				
Local Database - Create, Read				
Design Patterns				
Abstract Factory				
Builder				
Decorator				
Flyweight				
Memento				
Observer				
Prototype				
Deep Clone				
Files				
External Storage				
Files				
iText				
PdfDocument				
Performance				
GUI				
AlertDialog		X		
Custom GridView adapter				
Custom icons				
Layout Dimensions				
Menus				
Preferences				
Toasts	X		X	
Loaders/Threads				
AsyncTask				
CursorLoader	X			
Location				
Location API				
JSON				

GSON Serialization				
JSON to Java object transformation				
Parsing JSON results				
REST				
REST calls consumer				

Screen:	Game in Progress			
Component:	Statistic Groups		Counters	Statistic Details
Feature:	Layout statistic group.	Configurable Set statistics	Handle button increment counters and display labels.	Classify Aces and Attack Errors
Content Providers				
CommonDataKinds				
.Contactables				
Content Provider				
Content Providers - Contacts				
Content Providers - Email				
Content Providers - Text Messaging				
ContentResolver - Contacts				
Database				
Local Database - Create, Read				
Design Patterns				
Abstract Factory	X	X		
Builder				
Decorator				
Flyweight				
Memento				
Observer			X	
Prototype				
Deep Clone				
Files				
External Storage				
Files				
iText				
PdfDocument				
Performance				
GUI				
AlertDialog				X
Custom GridView adapter	X	X		
Custom icons				
Layout Dimensions				
Menus				
Preferences		X		
Toasts				
Loaders/Threads				

AsyncTask				
CursorLoader				
Location				
Location API				
JSON				
GSON Serialization				X
JSON to Java object transformation				
Parsing JSON results				X
REST				
REST calls consumer				

Screen:	Game in Progress					
Component:	Scoring		Serving		Undo	Weather
Feature:	Scoring Settings	Track Score	Track Serving Change	Track Server	Undo count	Capture weather data.
Content Providers						
CommonDataKinds						
.Contactables						
Content Provider						
Content Providers - Contacts						
Content Providers - Email						
Content Providers - Text Messaging						
ContentResolver - Contacts						
Database						
Local Database - Create, Read						
Design Patterns						
Abstract Factory						
Builder						
Decorator						
Flyweight						
Memento					X	
Observer		X	X	X		
Prototype						
Deep Clone					X	
Files						
External Storage						
Files						
iText						
PdfDocument						
Performance						
GUI						
AlertDialog						
Custom GridView adapter						
Custom icons						
Layout Dimensions						

Menus						
Preferences	X					X
Toasts						
Loaders/Threads						
AsyncTask						X
CursorLoader						
Location						
Location API						X
JSON						
GSON Serialization						
JSON to Java object transformation						
Parsing JSON results						X
REST						
REST calls consumer						X

Screen:	Game Summary			
Component:	Report Data	Report File		
Feature:	Game Summary Screen	Add notes field for report	Save stats to text file.	Save stats to PDF file format
Content Providers				
CommonDataKinds				
.Contactables				
Content Provider				
Content Providers - Contacts				
Content Providers - Email				
Content Providers - Text Messaging				
ContentResolver - Contacts				
Database				
Local Database - Create, Read				
Design Patterns				
Abstract Factory				
Builder	X		X	X
Decorator			X	
Flyweight				
Memento				
Observer				
Prototype				
Deep Clone				
Files				
External Storage			X	X
Files			X	X
iText				X
PdfDocument				X
Performance				
GUI				

AlertDialog		X		
Custom GridView adapter	X			
Custom icons				
Layout Dimensions	X			
Menus	X		X	
Preferences				
Toasts		X		
Loaders/Threads				
AsyncTask				
CursorLoader				
Location				
Location API				
JSON				
GSON Serialization	X			
JSON to Java object transformation	X			
Parsing JSON results	X			
REST				
REST calls consumer				